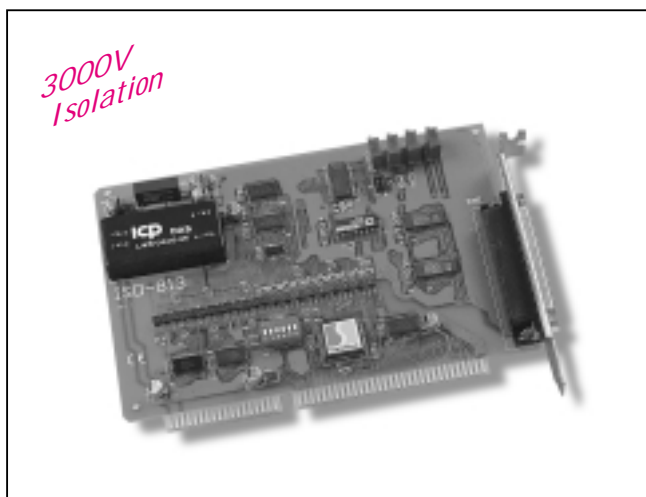




## ISO-813

### 32 Channel Single-ended Isolated Analog Input Board



#### Functional Description

The ISO-813 is a bus-type isolated 12-bit A/D board for PC/AT compatible computers. Its isolation range is increased to 3000 V and extend the application field to real industry application. It is backward compatible to 813 families. Comparing to PCL-813 or ACL-8113, the ISO-813 add X 16 Programmable Gain Control range . FPGA on board can increase the stability of this board. It is the most cost effective isolated A/D board in the world. If the user need high sampling rate, differential input and FIFO onboard isolated A/D card, please refer to our ISO-AD32.

#### Features

- 32 single-ended analog input channels
- 12-bit A/D converter ( ADS 774 or equivalent)
- 3,000Vdc photo-isolation protection
- Analog input range
  - Bipolar : +/- 5V, +/-2.5V, +/-1.25V, +/-0.625V, +/-0.3125V
  - Unipolar: 0-10V, 0-5V, 0-2.5V, 0-1.25V, 0-0.625V
- Programmable gain control
- 3000V DC/DC converter build in
- A/D trigger mode: Software Trigger
- A/D data transfer mode : polling

#### Applications

- Data acquisition
- Harsh environment operation
- Signal isolation

#### Specifications

##### ■ Analog Input Specifications

- Channels : 32 single-ended
- Resolution : 12 bits
- Conversion rate : 10KS/s max.
- Input impedance : 10 M $\Omega$
- Overvoltage protection : +/-35V
- Accuracy : 0.01% of reading +/- 1 bit
- Linearity : +/- 1 bit
- On chip sample & hold
- Zero drift : +/-25ppm/ $^{\circ}$ C of FS max.
- Power Requirements:** +5V @850mA max.

##### ■ General Environmental

- Operating temp: 0-50 $^{\circ}$ C
- Storage temp: -20 $^{\circ}$ C to 70 $^{\circ}$ C
- Humidity: 0 to 90% non-condensing
- Dimensions: 174 mm x 122 mm

- NAPDOS : Library and demo program for DOS

#### Software

- ISO-813 Development Toolkit for DOS
- ISO-813 Development Toolkit for Win95
- ISO-813 Development Toolkit for WinNT

#### Order Description

- ISO-813 32 channel isolated analog input board

#### Options

- DB-8325: Daughter board with signal conditioning circuitry
- DB-37: Directly connect signals to the back of ISO-813
- DN-37: I/O connector block with DIN-Rail mounting and 37-PIN D-SUB connector on it
- ISO-813 LabVIEW Development Toolkit for Win95
- ISO-813 LabVIEW Development Toolkit for WinNT